

# Sony Broadcast BVU 50 P (PAL) BVU 50 S (SECAM)

U-matic H S

U-MATIC VIDEOCASSETTE RECORDER

CAPTURING THE LIVING IMAGE...





# BVU 50P/S

## U-MATIC VIDEOCASSETTE RECORDER

The BVU-50P/S is a battery powered, record only, high-band U-matic format VTR of exceptionally low weight and with a minimum of operational controls. The recorder interfaces directly with BVP series cameras.

## Operational Features

### Video

The recorder accepts a 1.0V p-p ( $\pm 6$ dB) video signal via a BNC connector or a camera interface connector; tape motion is inhibited unless a video signal is present. Input video level may be monitored on the front panel meter. Control of video level is by an AGC circuit measuring sync amplitude.

No video playback facilities are provided, but a rotating RF confidence playback head detects the signals during recording and failure to record causes an associated warning lamp to be lit.

### Audio

Two discrete programme audio tracks are provided; input sensitivity is mic. level. Audio signal inputs are via individual XLR connectors, in addition channel 2 may be switched to an input via the camera interface connector. Record level is adjusted by front panel controls, and audio peak limiters are permanently in circuit. In addition, automatic gain control circuits can be switched in. Either audio input signal may be monitored on the front panel meter; the meter selector switch also controls the signal fed to the headphone monitoring jack — in the 'video' position a mixture of both audio channels is provided.

### Time Code

In addition to the two programme audio tape tracks, a time code track is also provided. An output of switched video is provided to drive an external time code generator.

### Tape Timer

A LED display of elapsed recording time in minutes and seconds is provided. An internal battery operates the tape counter memory when the BVU-50P/S is switched off.

### Back Space Editing

Automatic tape backspace gives sequential recording without any picture break-up at transition points.

### Warning System

In addition to the video record warning light, other front panel status lamps are provided for:

**Servo** — flashes when the drum servo is not locked.

**Humid** — indicates presence of excessive humidity on the head drum.

**Slack** — flashes if the tape is slack between the capstan and the take-up reel. Tape motion is inhibited.

**Tape End** — shows that the end of the tape has been reached. The tape is automatically stopped.

**Battery** — indicates low battery voltage.

All the above indications are repeated in the viewfinder warning lights of a BVP series camera when interfaced with a BVU-50P/S. In addition, RF, servo, high humidity and low battery alarms initiate a warning tone at the headphone monitoring output.

### Power Saving Mode

When used with BVP series cameras, a power saving mode may be initiated. This reduces the rotational speed of the head drum and switches off the video and audio circuitry.



Selected for low drop out count, KCS BR series Videocassettes are recommended for use with BVU 50 P/S recorders and are available with recording times of 10 and 20 mins.



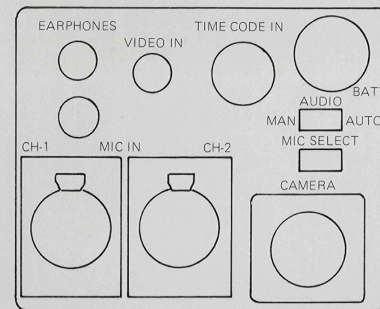
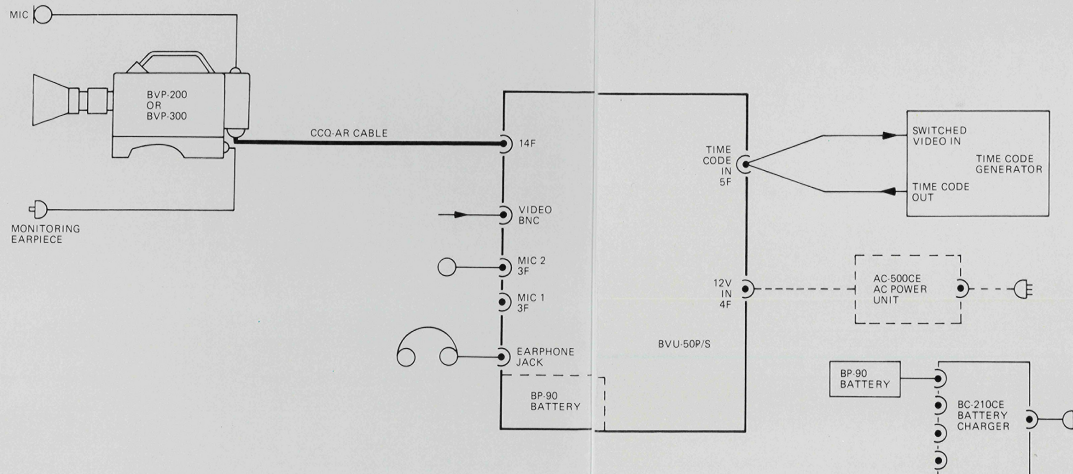
The BC-210 CE sequentially charges up to four of the single BP-90 batteries used in the BVU-50 P/S.



The BVU-50 P/S may be optionally powered from this AC-500 CE power adaptor.



## Connections



BVU-50 P/S side connector panel

# Performance Data and Specification

# Dimensions

## VIDEO

**Recording System**  
2 head helical scan, tape speed  
9.53 cm/s (3.75 in/s)  
Luminance: FM4.8-6.4MHz  
Chrominance: Converted Sc  
BVU-50P (PAL) 923.803kHz  
BVU-50S (SECAM) D<sub>a</sub> 837.891kHz  
D<sub>a</sub> 994.141kHz

Composite video, 1V p.p., -6dB,  
75 ohms

Resolution 260 lines

Signal to noise  
ratio 46dB

## AUDIO

Frequency  
response 50Hz-15kHz

Signal to noise  
ratio 48dB (at 3% dist.)

Wow and flutter 0.2%

Audio input -60dBu, 3K ohms, balanced

Earphone output -26dBu, 8 ohms

## TIME CODE

Input 0dBu, 10K ohms, unbalanced

## ELECTRICAL

Power requirement 12V 2V

Power  
consumption 11W (record mode)  
3.5W (power saving mode)

## GENERAL

Operating  
temperature 0°C to 40°C

Operating position Any

Maximum  
recording time 20 mins

Recommended  
videocassettes Sony KCS BR series

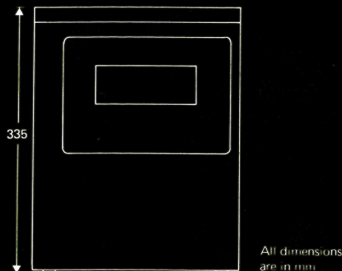
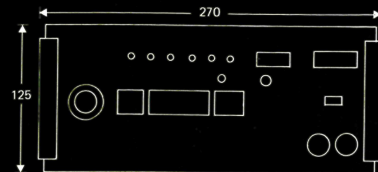
Operating time  
with BP-90 battery 200 mins  
70 mins when also operating  
BVP-300P/S

## ACCESSORIES

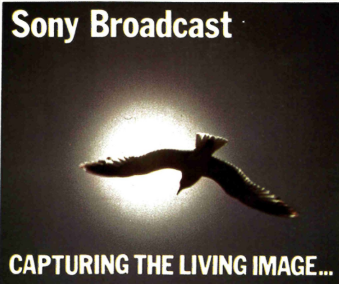
Included Carrying case  
Shoulder strap  
Carrying straps  
Operation and maintenance manual

Optional BP-90 Battery  
BC-210CE Battery charger  
AC-500CE AC Power adaptor  
Time code reader/generator

Design and specification may be subject to change without  
notice.



WEIGHT: 5.7 kg without battery or cassette



Contact your local  
Sony Distributor  
or write to



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